Cybex VR3® Dip/Chin Assist
Owner's and Service Manual

Strength Systems

Part Number 12231-999-4 C

www.cybexinternational.com

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1 - Safety

Safety

Read the Owner's Manual carefully before assembling, servicing or using the equipment.

It is the responsibility of the facility owner and/or owner of the equipment to instruct users on proper operation of the equipment and review all labels.

WARNING: Serious injury could occur if these safety precautions are not observed:

User Safety Precautions

- Obtain a medical exam prior to beginning an exercise program.
- Read and understand warning labels and user manual prior to exercising. Obtain instruction prior to use.
- Keep body and clothing free from and clear of all moving parts.
- Inspect machine prior to use. **DO NOT** use if it appears damaged or inoperable.
- **DO NOT** attempt to fix a broken or jammed machine. Notify floor staff.
- Use the machine only for the intended use. **DO NOT** modify the machine.
- Be sure that the weight pin is completely inserted. Use only the pin provided by the manufacturer. If unsure seek assistance.
- Never pin the weights in an elevated position. **DO NOT** use the machine if found in this condition. See assistance from floor staff.
- Children must not be allowed near these machines. Teenagers must be supervised.
- **DO NOT** use if guards are missing or damaged.
- **DO NOT** use dumbbells or other incremental weights, except those provided by the manufacturer.
- Inspect all cables and belts and connections prior to use. **DO NOT** use if any components are worn, frayed or damaged.
- **DO NOT** remove any labeling from equipment. Replace any damaged labels.
- Stop exercising if you feel faint, dizzy or experience pain at any time while exercising and consult your physician.

Facility Safety Precautions

- Read the Owner's Manual carefully before assembling, servicing or using the equipment.
- Securely anchor each machine to the floor using the anchor holes provided in each machine.

NOTE: *Cybex is not responsible for the actual anchoring of equipment. Consult with a professional contractor.*

NOTE: *Use fasteners having a minimum of 500 lbs. tensile capacity (3/8" grade 2 bolts or better).*

NOTE: *If legs/frame does not contact surface, DO NOT pull down with anchors. Shim any leg or frame not in contact with surface using flat washers.*

- Make sure that each machine is set up and operated on a solid level surface. **Do not install equipment on an uneven surface.**
- Make sure that all users are properly trained on how to use the equipment.
- Make sure there is enough room for safe access and operation of the equipment.
- Perform regular maintenance checks on the equipment. Also pay close attention to all areas most susceptible to wear, including (but not limited to) cables, pulleys, belts and grips.
- Immediately replace worn or damaged components. If unable to immediately replace worn or damaged components then remove from service until the repair is made.
- Use only Cybex supplied components to maintain/repair the equipment.
- Keep a repair log of all maintenance activities.
- Inspect all cables and belts and connections prior to use. **DO NOT** use if any components are worn, frayed or damaged.

NOTE: *It is the sole responsibility of the user/owner or facility operator to ensure that regular maintenance is performed.*

Safety Guidelines And Practices

Cybex recommends that all fitness equipment be used in a supervised area. It is recommended that the equipment be located in an access controlled area. Control is the responsibility of the owner. The extent of control is at the discretion of the owner.

It is the responsibility of the purchaser/user of Cybex products to read and understand the owner's manual, and warning labels; as well as instruct all individuals, whether end users or supervising personnel, on proper usage of the equipment.

PROPER USAGE:

Use machine only as described in the manual. Failing to follow proper instructions may result in injury.

Do Not Lean Against or Pull On the framework, weight stack, or any component, whether machine is at rest or in use. Inappropriate or improper use may result in injury to users or third parties (bystanders).

Do not use machine if it is not located on a solid level surface or is improperly installed.

Provide an adequate safety perimeter between the machine, walls and other equipment to ensure that the facility has the proper clearance for usage and training.

SECURING EQUIPMENT:

The machine has holes in the feet, which allow for ease in anchoring to the floor. Cybex strongly recommends that, to eliminate rocking, tipping or falling over due to incorrect usage and misuse, equipment be secured to a solid, level surface.

1. The solid, level surface should not deviate more than 1/8" over a 10' distance or as defined and required by local building and architectural codes.

2. Anchoring of equipment must be completed by a qualified licensed contractor.

3. Anchoring holes are provided on the feet of the frame. All anchoring locations must be used when anchoring the equipment to the floor.

4. Due to the wide variation of flooring on which machines may be anchored or installed, verify anchoring method and anchoring fasteners with a qualified and licensed contractor.

5. A minimum pull out force of 220 lbs/100 kgs is required for each anchor position..

6. Do not use machine until it is properly anchored.

MAINTENANCE:

Preventative maintenance allows proper equipment operation and reduces the risk of injury. Perform the maintenance requirements as specified in the manual.

STANDARD COMPLIANCE:

Cybex products meet or exceed applicable ASTM and EN Standards.

Warning/Caution Decals

Warning decals indicate a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

Caution decals indicate a potentially hazardous situation, which, if not avoided, could result in minor or moderate injury.

The warning and caution decals are shown on the following page. The diagrams following the decals show where each decal is located.

A

⚠ WARNING

SERIOUS INJURY
COULD OCCUR IF
THESE PRECAUTIONS
ARE NOT OBSERVED

1. Obtain a medical exam prior to beginning an exercise program.

2. Read and understand warning labels and user manual prior to exercising. Obtain instruction prior to use.

3. Keep body and clothing free from and clear of all moving parts.

4. Inspect machine prior to use. DO NOT use if it appears damaged or inoperable.

5. DO NOT attempt to fix a broken or jammed machine. Notify floor staff.

6. Use the machine only for the intended use. DO NOT modify the machine.

7. Be sure that the weight pin is completely inserted. Use only the pin provided by the manufacturer. If unsure seek assistance.

8. Never pin the weights in an elevated position. DO NOT use the machine if found in this condition. Seek assistance from floor staff.

9. Children must not be allowed near this machine. Teenagers must be supervised.

10. DO NOT use if guards are missing or damaged.

11. DO NOT use dumbbells or other incremental weights, except those provided by the manufacturer.

12. Inspect all cables and belts and connections prior to use. DO NOT use if any components are worn, frayed, or damaged.

13. DO NOT REMOVE THIS LABEL. REPLACE IF DAMAGED.

4605-381-4 A

B

⚠ CAUTION

Personal injury may occur.

Keep away from moving parts to avoid injury.

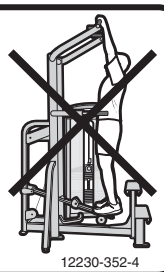
4000Y316-4

C

⚠ WARNING

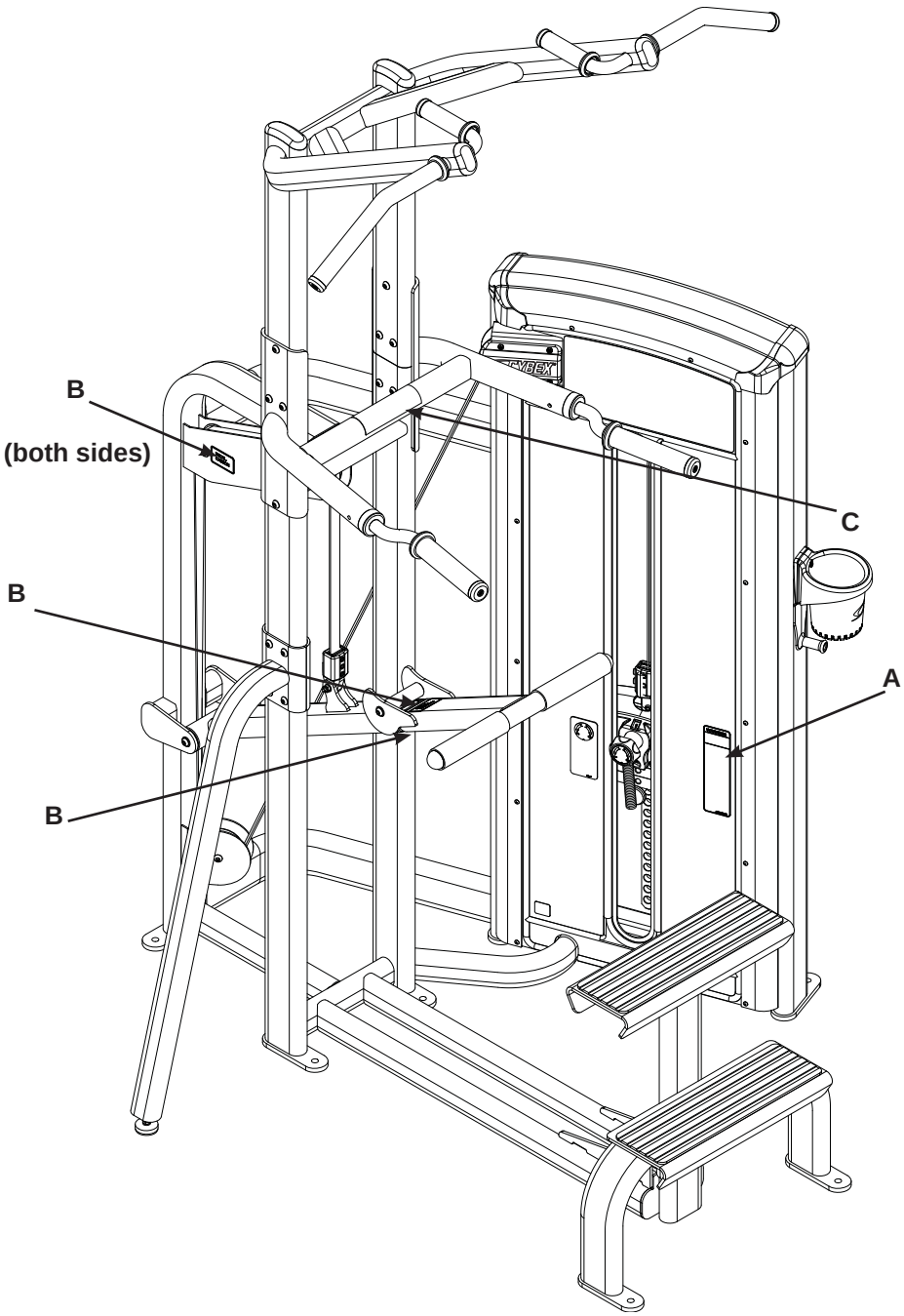
SERIOUS INJURY
COULD OCCUR IF
THESE PRECAUTIONS
ARE NOT OBSERVED

1. Exit machine from top step only. Weight stack must be down (not elevated).
2. Do not exit machine with foot bar in down position.



12230-352-4

Dip/Chin Assist - 12231



	DESCRIPTION	PART NO.
A.	Warning Label	4605-381-4
B.	Caution Decal	4000Y316-4
C.	Warning Decal	12230-352-4

Regular Maintenance Activities

Preventative maintenance activities must be performed to maintain normal operation of your equipment. Keeping a log sheet of all maintenance actions will assist you in staying current with all preventative maintenance activities. The preventative maintenance actions are described in detail in Chapter 5. Briefly, they include:

Daily

1. Clean upholstery.

Weekly

1. Inspect all nuts and bolts for looseness. Tighten as required.

2. Inspect all cables and belts for damage or wear (see Chapter 5). **If a cable or belt is worn or damaged, immediately discontinue use until cable or belt has been replaced.**

3. Check for worn handles, worn snap links, and worn warning labeling. Replace all worn parts immediately.

4. Inspect for loose or worn grips. Replace all loose or worn grips immediately.

5 Inspect weight stacks for proper alignment and operation. Correct all improper alignment and operation issues immediately.

6. Lubricate guide rods using automotive engine oil only.

Yearly

1. Replace all cables and belts at least annually.

Using Proper Form

Before working out, read and understand the exercises located on the placard and in Chapter 2.

2 - Exercise

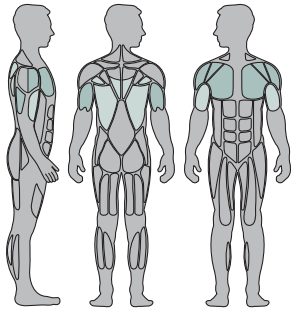
Intended Use

The intended use of this equipment is to aid or improve general physical fitness and exercise. For Commercial use.

Instructions

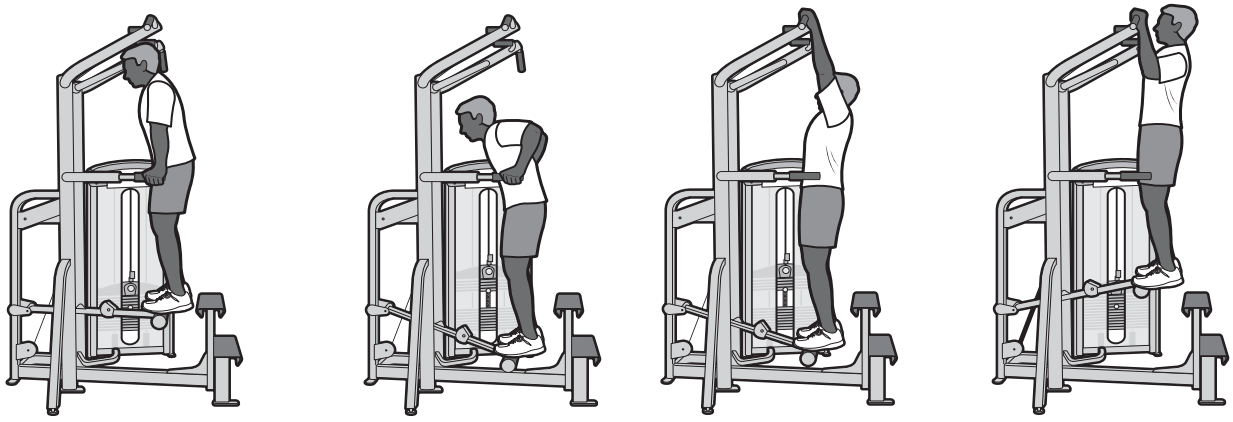
Read and understand all instructions and warnings prior to using this machine. See Chapter 1, Safety in the VR3 Owner's Manual or consult with floor staff.

MUSCLES USED



- ***Dip -*** Pectoralis, Anterior Deltoid, Triceps
- ***Chin-Up -*** Latissimus Dorsi, Teres Major, Biceps, Lower Trapezius, Rhomboid

START **FINISH** **START** **FINISH**



NOTE: *Motions Developed: Dip - Shoulder Flexion and Adduction Elbow Extension*
Chin - Up - Shoulder Adduction and Elbow Flexion

NOTE: *Do not turn knob when weight stack is elevated.*

NOTE: *All adjustment points on the machine have yellow handles or knobs.*

NOTE: *See next page for "Set Up" and "Movement".*

Set Up

1. Select desired assist.
2. Select desired grip.
3. Step onto foot bar. ***NOTE:*** *If assist is not desired, lift foot bar up.*

Movement

1. Lift/lower body with smooth controlled movements.

3 - Customer Service

Contacting Service

Hours of phone service are Monday through Friday from 8:30 to 6:00 p.m. Eastern Standard Time.

For Cybex customers living in the USA, contact Cybex Customer Service at **888-462-9239**.

For Cybex customers living outside the USA, contact Cybex Customer Service at **508-533-4300** or fax **508-533-5183**.

Order parts and find information on the web at www.eCybex.com or by e-mail at techhelp@cybexintl.com.

Ordering Parts

Fax orders to **508-533-5183**. To speak with a customer service representative, call **888-462-9239** (for customers living within the USA) or **508-533-4300** (for customers outside the USA). You may also contact us through e-mail at techhelp@cybexintl.com

Having the following information ready when calling will assist our Cybex representatives in serving you.

- **Unit Serial Number**
- **Product Name**

The unit serial number and product name can be found on the serial number decal. See Chapter 6 for exact location of serial number decal.

- **Part Description**
- **Part Number**

Part descriptions and part numbers are located in Chapter 6 of this manual.

- **Shipping Address**
- **Contact Name**

In addition to your shipping address and contact name, your account number is helpful but not required.

Return Material Authorization (RMA)

The Return Material Authorization (RMA) system outlines the procedures to follow when returning material for placement, repair or credit. The system assures that returned materials are properly handled and analyzed. Follow the following procedures carefully.

Contact your authorized Cybex dealer on all warranty-related matters. Your local Cybex dealer will request a RMA from Cybex, if applicable. Under no circumstances will defective parts or equipment be accepted by Cybex without proper RMA and an Automated Return Service (ARS) label.

1. **Call the Customer Service Hot Line listed above for the return of any item that is defective.**
2. **Provide the technician with a detailed description of the problem you are having or the defect in the item you wish to return.**
3. **Provide the model and serial number of your Cybex equipment.**
4. **At Cybex's discretion, the technician may request that you return the problem part(s) to Cybex for evaluation and repair or replacement. The technician will assign you a RMA number and will send you an ARS label. The ARS label and the RMA numbers must be clearly displayed on the outside of the package that contains the item(s) to be returned. Include the description of the problem, the serial number of the equipment and the name and address of the owner in the package along with the part(s).**
5. **Forward the package through UPS to Cybex.**

   Attn: Customer Service Department

   Cybex International, Inc.

   1975 24th Ave SW

   Owatonna, MN 55060

NOTE: *Merchandise returned without an RMA number on the outside of the package or shipments sent COD will not be accepted by the Cybex receiving department.*

Damaged Parts

Materials damaged in shipment should not be returned for credit. Shipping damages are the responsibility of the carrier (UPS, Federal Express, trucking companies, etc.)

Apparent Damage - Upon receipt of your shipment, check all items carefully. Any damage seen with a visual check must be noted on the freight bill and signed by the carrier's agent. Failure to do so will result in the carriers refusal to honor your damage claim. The carrier will provide you with the required forms for filing such claims.

Concealed Damage - Damage not seen with a visual check upon receipt of a shipment but notices later must be reported to the carrier as soon as possible. Upon discovery of the damage, a written or phone request to the carrier asking them to perform an inspection of the materials must be made within ten days of the delivery date. Keep all shipping containers and packing materials as they will be needed in the inspection process. The carrier will provide you with an inspection report and the necessary forms for filing a concealed damage claim. Concealed damage claim is the carrier's responsibility.

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4 - Assembly

TOOLS REQUIRED

- 7/32" Allen wrench
- 1/8" Allen wrench
- Medium weight automotive engine oil
- Torque wrench
- 3/4" Wrench
- Tape measure

NOTE: *Two people will be required for this procedure.*

NOTE: *It is the responsibility of the facility owner/owner of the equipment to ensure that there is appropriate clearance around each machine toallow for safe use and passage.*

NOTE: *Refer to chapter 6 for reference diagrams.*

1. **Read and understand all instructions thoroughly before starting any of the procedures listed on this instruction sheet.**

2. **Verify you have received the appropriate configuration.**

   A. Verify that you received the correct color machine that you ordered.

   B. Verify you received the proper weight stack.

   C. Verify you received the appropriate owner's manual.

   D. Verify you received the warranty sheet.

3. **Move to desired location.**

4. **Remove shipping feet.**

WARNING: ***Use extreme caution when removing shipping cones and installing feet. Failure to do so could result in injury.***

   A. With an assistant, carefully remove each (standard) cone-shaped shipping support using a 3/4" socket or wrench.

   B. Cut shipping tie securing top weight.

   C. Carefully place rubber feet (supplied with machine) on each foot of the frame.

5. **Install chin handle.**

   A. Carefully remove hardware kit, chin handle and support leg secured to frame. With an assistant, carefully lift chin handle onto dip handle. See Figure 1.

   B. Align holes with connection plate. See Figure 1. ***NOTE:*** *If holes do not line up then loosen the 12 Button Head Socket Cap Screws (BHSCS) securing dip handle to frame.*

   C. Apply loctite #242 to the BHSCS (supplied in hardware kit). ***NOTE:*** *BHSCS .375-16 x .625 are installed on the inside of connection plate. BHSCS 3.75-16 x .875 are installed on the outside of connection plate.* See Figure 1.

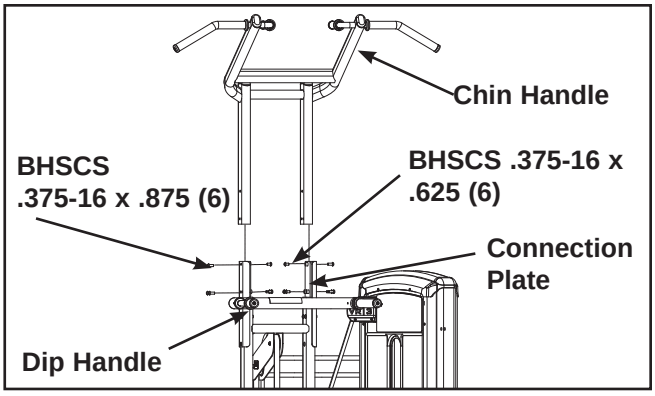


Figure 1

D. Apply loctite to holes of connection plate.

E. Using a 7/32" Allen wrench (supplied in kit) securley tighten all BHSCS securing chin handle in place.

F. If BHSCS securing dip handle were loosened in step 5B then remove one BHSCS, apply loctite to hole in connection plate and BHSCS and then reinstall BHSCS. Repeat this step until all 12 BHSCS are loctited then securley tighten all BHSCS. ***NOTE:*** *Do not remove all BHSCS at the same time as connection plate will fall.*

6. Install support leg.

A. Align holes of support leg with holes on frame. See Figure 2. Push BHSCS (supplied in kit) through holes of support leg and frame.

B. Place lower bracket on BHSCS from step 6A.See Figure 2.

C. Place locknuts on BHSCS and securely tighten with a 9/16" wrench and 7/32" Allen wrench.

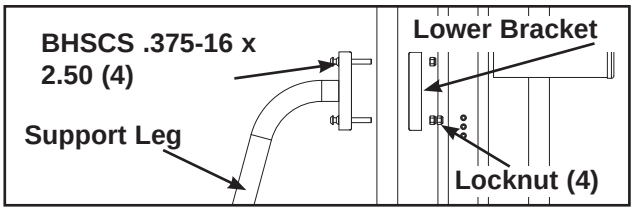


Figure 2

7. Installing the weight stack.

A. If weight stack is already installed, proceed to step 11.

B. Using a 1/8" Allen wrench, remove the two Button Head Socket Cap Screws (BHSCS) securing the bottom bracket to the frame. ***NOTE:*** *Do not remove middle BHSCS securing shroud to bottom bracket.*

C. Remove the remaining BHSCS securing the back shroud to the frame. ***NOTE:*** *After final BHSCS is removed shroud will slide down to the floor with bottom support bracket attached*.

D. Carefully slide shroud out of machine.

E. Slide spring loaded top guide rod cap down guide rod until guide rod cap is clear of frame. ***NOTE:*** *Top guide rod cap is spring loaded.*

F. Slowly release grasp of guide rod cap. ***NOTE:*** *Guide rod cap contains a compression spring that will fly if grasp is not released slowly.*

G. Remove guide rod cap and spring and set aside.

H. Repeat steps 7E-7G for other rod guide.

I. Carefully lean guide rods slightly outward, away from machine to clear pulley. ***NOTE:*** *Excessive pressure on guide rods may damage lower guide rod caps.*

J. Slide top weight up and out of machine and carefully set it aside.

K. Wipe guide rods clean over entire length. Lubricate with light coating of medium weight automotive engine oil.

L. Have an assistant hold the guide rods vertical.

M. Carefully align weight plate over guide rods and slowly lower weight plate. ***NOTE:*** *When installing weight plates, position plates so wide edges of bushing face upward and narrow edges of bushing face downward. See Figures 3A and 3B.*

N. Repeat step 7L-7M to install each weight plate.

O. Slide top weight over guide rods.

P. Place springs and guide rod caps on guide rods (removed from step 7G).

Q. Compress guide rod caps and ailgn guide rod caps with weight frame holes and secure in place. ***NOTE:*** *Guide rod caps must snap or lock into weight frame holes.*

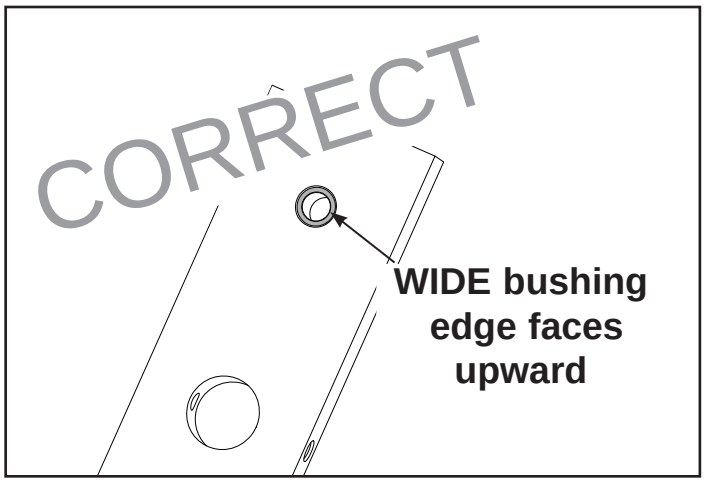


Figure 3A

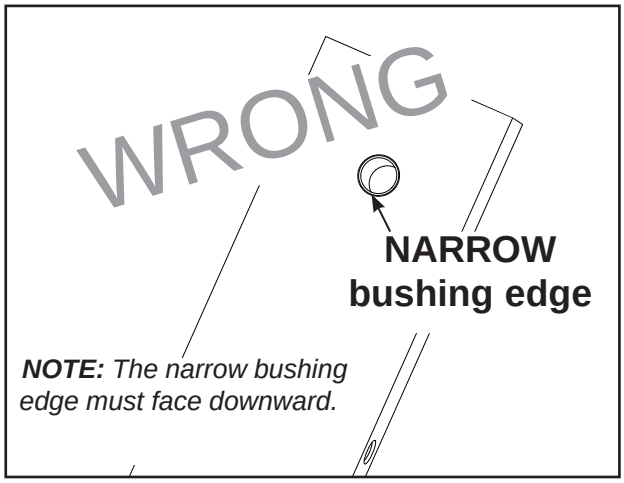


Figure 3B

8. Belt Routing.

A. Verify belt is routed through top of pulley bracket and then route end of belt down to the top weight.

B. Carefully lift top weight and verify that the position of the belt clamp (on the top weight) is aligned properly with the top pulley bracket.

C. Slide belt through slot in belt clamp.

D. Verify belt and insert are installed properly, as shown in Figure 4A. ***NOTE:*** *Do not install the insert backwards as shown in Figure 4B.*

E. Pull belt through clamp until input arm measures 31" from floor. ***NOTE:*** *Measure from floor to lower edge of caution decal (located on foot bar).* See Figure 5.

F. Secure belt to clamp using the two set screws. ***Note:*** *Torque set screws 300-350 in./lbs.*Place weight stack pin in each plate to verify proper installation

G. Without selecting any resistance, lift top weight up and down (simulating normal operation).

H. Have an assistant verify that the belt is moving smoothly and is routed straight from the top pulley bracket to the top weight belt clamp.

I. Turn the Increment Weight Adjusting Knob to select 0 lbs or 0 kg.

Correct belt routing

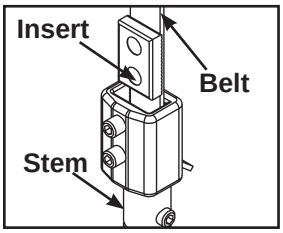


Figure 4A

Wrong belt routing

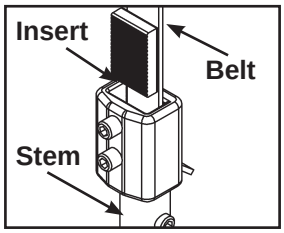


Figure 4B

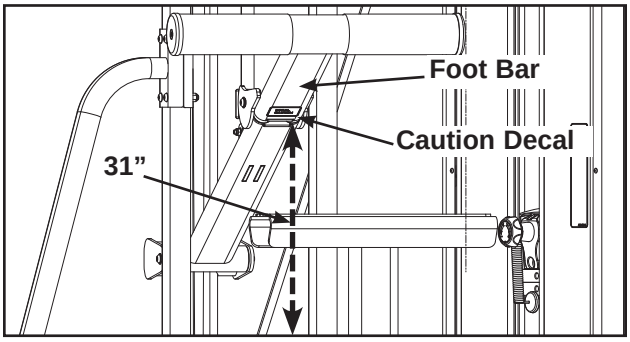


Figure 5

9. Install back shrouds

A. Carefully place shroud into position.

B. Starting at the bottom replace the two BHSCS (removed in step 7B) to secure bottom support bracket to the shroud.

C. Install but do not tighten remaining BHSCS securing shroud.

D. Tighten all BHSCS.

10. Install weight plate decals.

A. Slowly and carefully peel off back side of decal. ***NOTE:*** *When peeling off back cover, make sure that the decals remain attached to the front sticker.* Figure 6.

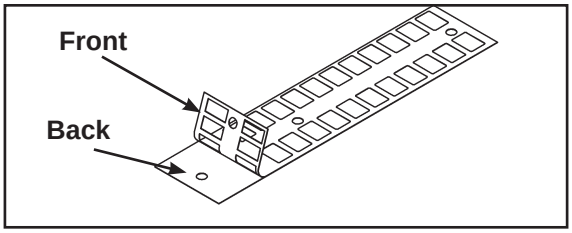


Figure 6

B. Insert a guide pin through each hole of the template. ***NOTE:*** *A guide pin can be anything that fits through the weight stack hole, such as a weight stack selector pin.*

C. Carefully align decal and rub it onto weight plates.

D. Carefully remove front side, leaving decals adhering to weight plates. See Figure 7.

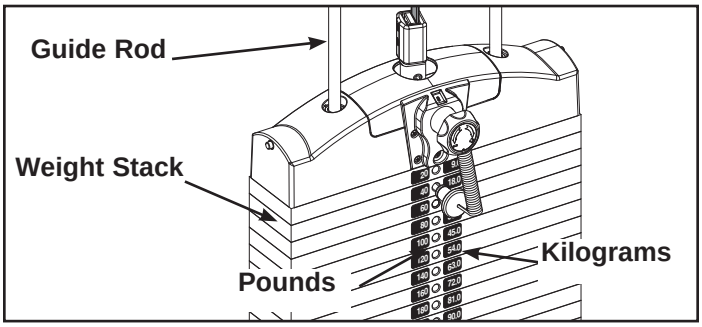


Figure 7

NOTE: *It is important that you perform regular inspection and maintenance activities on your equipment. See the CYBEX VR3 Owner's Manual for inspection and maintenance activities. If you do not have a CYBEX Owner's Manual or if you have any questions or concerns, call CYBEX Customer Relations at 1-800-766-3211.*

11. Verify proper operation

12. Securely anchor machine to the floor.

A. Securely anchor machine to the floor using the anchor holes provided in each machine.

NOTE: *Cybex is not responsible for the actual anchoring of equipment. Consult with a professional contractor.*

NOTE: *Use fasteners having a minimum of 500 lbs. tensile capacity (3/8" grade 2 bolts or better).*

NOTE: *If legs/frame does not contact surface, DO NOT pull down with anchors. Shim any leg or frame not in contact with surface using flat washers.*

5 - Maintenance

All preventive maintenance activities must be performed on a regular basis. Performing routine preventive maintenance actions can aid in providing safe, trouble-free operation of all Cybex Strength Systems equipment.

NOTE: *Cybex is not responsible for performing regular inspection and maintenance actions for your machines. Instruct all personnel in equipment inspection and maintenance actions and also in accident reporting/recording. Cybex phone representatives are available to answer any questions or concerns that you may have.*

⚠ CAUTION

Use only Cybex replacement parts when servicing. Failure to do so could result in personal injury.

NOTE: *All inspections and repairs must be performed by trained service personnel only.*

Cybex will void warranty if non-Cybex replacement parts are used.

Daily Procedures

1. Upholstery - Wipe down all upholstery as per the recommendations listed below for light soiling and more difficult stains.

Light Soiling

- A solution of 10% household liquid soap with warm water applied with a soft damp cloth.
- If necessary, a solution of liquid cleanser and water applied with a soft bristle brush. Wipe away the residue with a water dampened cloth.

More Difficult Stains

- Dampen a soft white cloth with a solution of 10% household bleach (sodium hypochlorite), 90% water. Rub gently. Rinse with a water dampened cloth to remove bleach concentration.
- The same procedure can be used with full strength household bleach, if necessary.
- Allow bleach to puddle on the affected area or apply with a soaked cloth for approximately 30 minutes. Rinse with a water dampened cloth to remove any remaining bleach concentration.

Alternative Method for Difficult Stains

- Dampen a soft white cloth with rubbing alcohol and rub gently. Rinse with a water dampened cloth to remove any remaining rubbing alcohol concentration.

NOTE: *To restore luster, a light coat of spray furniture wax can be used. Apply for 30 seconds and follow with a light buffing using a clean white cloth.*

Please Review Carefully

When using strong cleaning agents such as rubbing alcohol or bleach, it is advisable to first test in an inconspicuous area. Other cleaning agents may contain harsh or unknown solvents and are subject to formula changes by the product manufacturer without notice. Should you desire to use other cleaning agents, carefully try them in an inconspicuous area to determine potential damage to the material. Never use harsh solvents or cleaners which are intended for industrial applications. To clean stained or soiled areas, a soft white cloth is recommended. Avoid use of paper towels.

Cleaning products may be harmful/irritating to your skin, eyes, etc. Use protective gloves and eye protection. Do not inhale or swallow any cleaning product. Protect surrounding area/clothing from exposure. Use in well ventilated area. Follow all product manufacturer's warnings. CYBEX and its vendors cannot be held responsible for damage or injuries resulting from the use or misuse of cleaning products.

2. Frames - Wipe down all frames using a mild solution of warm water and car wash soap. Be sure to dry thoroughly. ***AVOID*** acid or chlorine based cleaners and also cleaners containing abrasives as these could scratch or damage the equipment.

3. Chrome - Clean chrome tubes, first using chrome polish and then using a car wax seal. Neutral cleaners with a pH between 5.5 and 8.5 are recommended. Be sure to dry thoroughly. ***AVOID*** acid or chlorine based cleaners and also cleaners containing abrasives as these could scratch or damage the equipment.

4. Guidelines for cleaning front panel:

- Use clean soft cloths or sponges for application of cleaners and again for washing and rinsing.
- Follow up the application with warm water rinse.
- Don't use abrasives or high alkaline cleaners.
- Don't leave cleaners on for long periods, wash immediately.

- Don't apply cleaners in direct sunlight or at elevated temperatures.
- Don't use scrapers, squeegees or razors.
- Don't clean with gasoline.

Compatible Cleaners and Detergents:

- Formula 409
- Top Job
- Joy
- Palmolive
- Windex with Ammonia D

To Minimize Fine or Hairline Scratches:

Mild automotive polish applied and removed with a soft, clean cloth will help fill scratches.

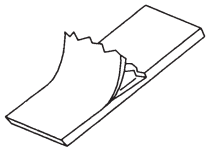
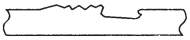
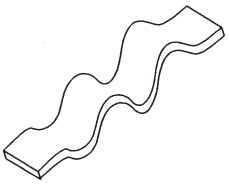
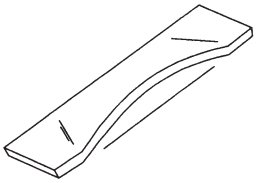
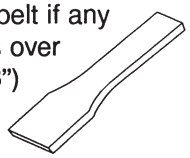
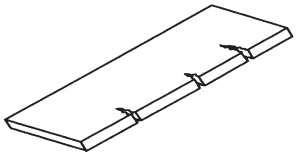
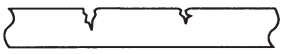
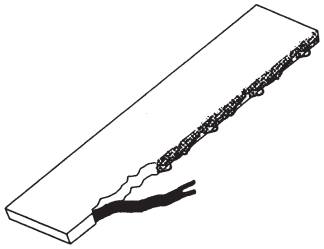
Suggested Polishes:

- Johnson Paste Wax
- Mirror Glaze #10 Plastic Polish (by Mirror Bright Polish Co.)
- Novus Plastics Polish #1, #2 (By Novus Inc.)

Weekly Procedures

1. Check all nuts and bolts for looseness. Tighten as required.
2. Inspect all belts (entire length) for any ***non-uniformity and wear.***

   Immediately replace belt if any of the following conditions are present:

	3D View	3D or Side View
• **Peeling of the belt's skin.**		
• **Wave in the belt.**		
• **Belt is necked down (narrow section).**	Replace belt if any section is over 1/32" (.03") narrower than rest of the belt. 	Examine edge of belt (both sides). Replace belt if any section is narrower than the rest.
• **Cracks or splits.**		
• **One or more strands of kevlar hanging out.** ***NOTE:*** *Also replace belt if there is a significant amount of frayed kevlar.*		

3. Some machines use cables in addition to belts. Inspect all cables for wear or damage and proper tension. When inspecting cables, run your fingers on the cable, paying particular attention to bends in the cable and attachment points.

WARNING: Replace all worn cables immediately. The following conditions may indicate a worn cable:

- A tear or crack in the cable sheath that exposes the cable. See Figure 1.

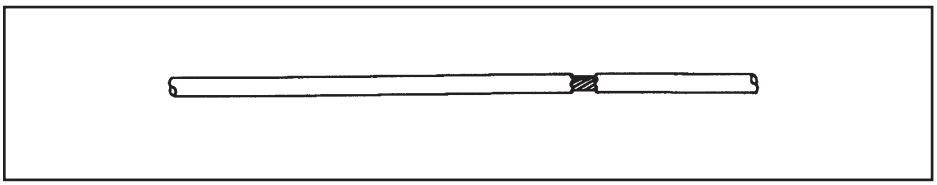


Figure 1.

- A kink in the cable. See Figure 2.

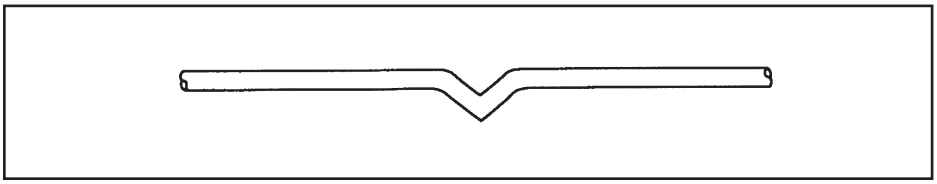


Figure 2.

- A curled sheath. See Figure 3.

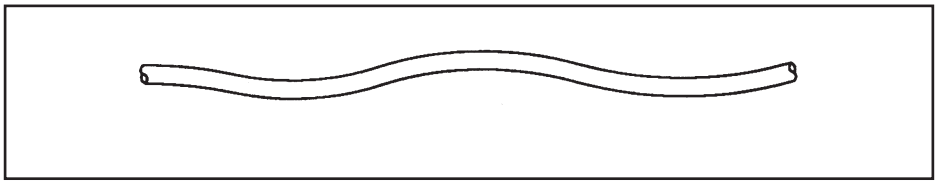


Figure 3.

- "Necking", a stretched cable sheath. See Figure 4.

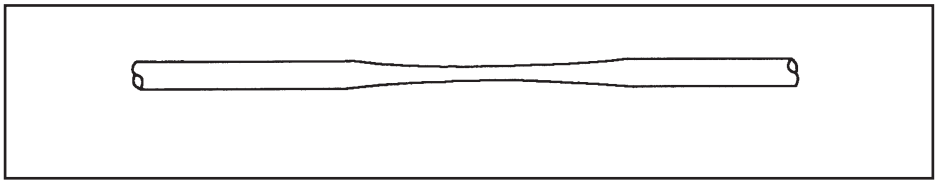


Figure 4.

4. Inspect bars and handles for wear, paying particular attention to tab area connecting points.

   Replace all worn handles immediately.

5. Inspect snap links for proper latching (indicates wear).

   Replace all worn snap links immediately.

6. Inspect for loose or worn grips.

   Replace all loose or worn grips immediately.

7. Inspect all labeling for readability. This includes instructional placards, warning and caution decals.

   Replace all worn labeling immediately.

8. Inspect all weight stacks for proper alignment and operation.

   Correct all improper alignment and operation issues immediately.

9. Wipe *Weight Stack Guide Rods* clean over entire length. Lubricate with a light coat of medium weight automotive engine oil.

Yearly Procedures

1. Replace all belts cables at least annually.

Environment

Static Electricity - Depending upon where you live, you may experience dry air, causing a common experience of static electricity. This may be especially true in the winter time. You may notice a static build-up just by walking across a carpet and then touching a metal object. The same can hold true while working out on your unit. You may experience a shock due to the build-up of static electricity on your body and the discharge path of the unit. If you experience this type of situation, you may want to increase the humidity to a comfortable level through the use of a humidifier.

Humidity - The unit is designed to function normally in an environment with a relative humidity range of 30% to 75%.

NOTE: *Do not install or use the unit in an area of high humidity, such as in the vicinity of a steam room, sauna, indoor pool or outdoors. Exposure to extensive water vapor, chlorine and/or bromine could adversely affect the electronics as well as other parts of the machine.*

Temperature - The unit is designed to function normally in an environment with an ambient temperature range of 50° F (10° C) to 104° F(40° C) degrees.

Storage

Humidity - The unit can be shipped and stored in an environment with a relative humidity range of 10% to 90%.

NOTE: *Do not store the unit in an area of high humidity, such as in the vicinity of a steam room, sauna, indoor pool or outdoors. Exposure to extensive water vapor, chlorine and/or bromine could adversely affect the electronics as well as other parts of the machine.*

Temperature - The unit can be shipped and stored in an environment with an ambient temperature range of 32° F (0° C) and 140 F (60° C) degrees.

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6 - Service

Please refer to the next several pages for parts lists, exploded-view diagrams and cable and belt routing diagrams.

⚠ CAUTION

Use only Cybex replacement parts when servicing. Failure to do so could result in personal injury.

Cybex will void warranty if non-Cybex replacement parts are used.

NOTE: *All inspections and repairs must be performed by trained service personnel only.*

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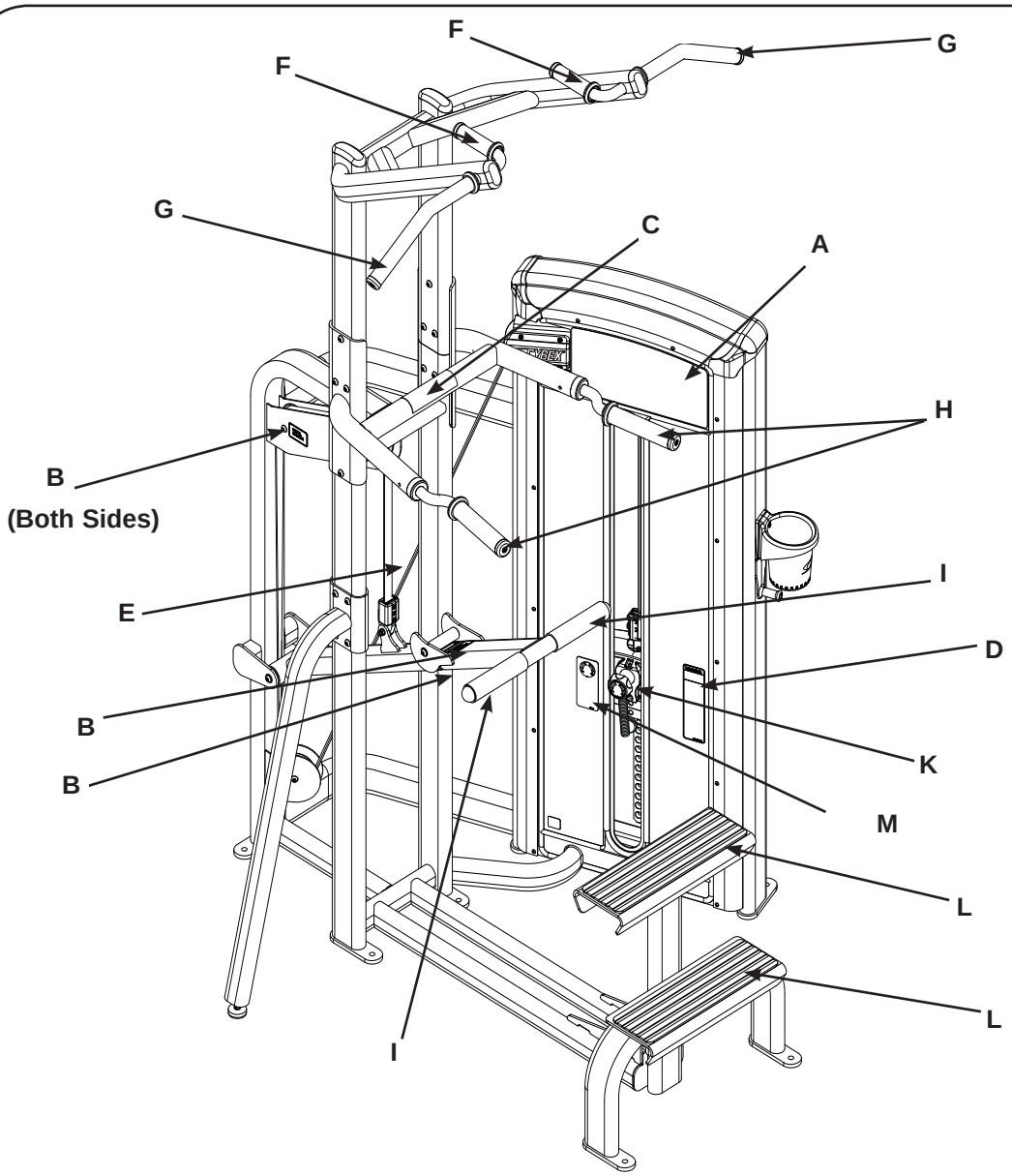
Dip/Chin Assist

PRODUCT NO. 12231



NOTE: See exploded-veiw of step assembly for location of J (serial number decal).

	DESCRIPTION	PART NO.
A.	Placard Decal	12231-598
B.	Caution Decal	4000Y316
C.	Warning Decal	12230-352
D.	Warning Label	4605-381
E.	Weight Stack Belt	GB000202
F.	Grip	12230-355

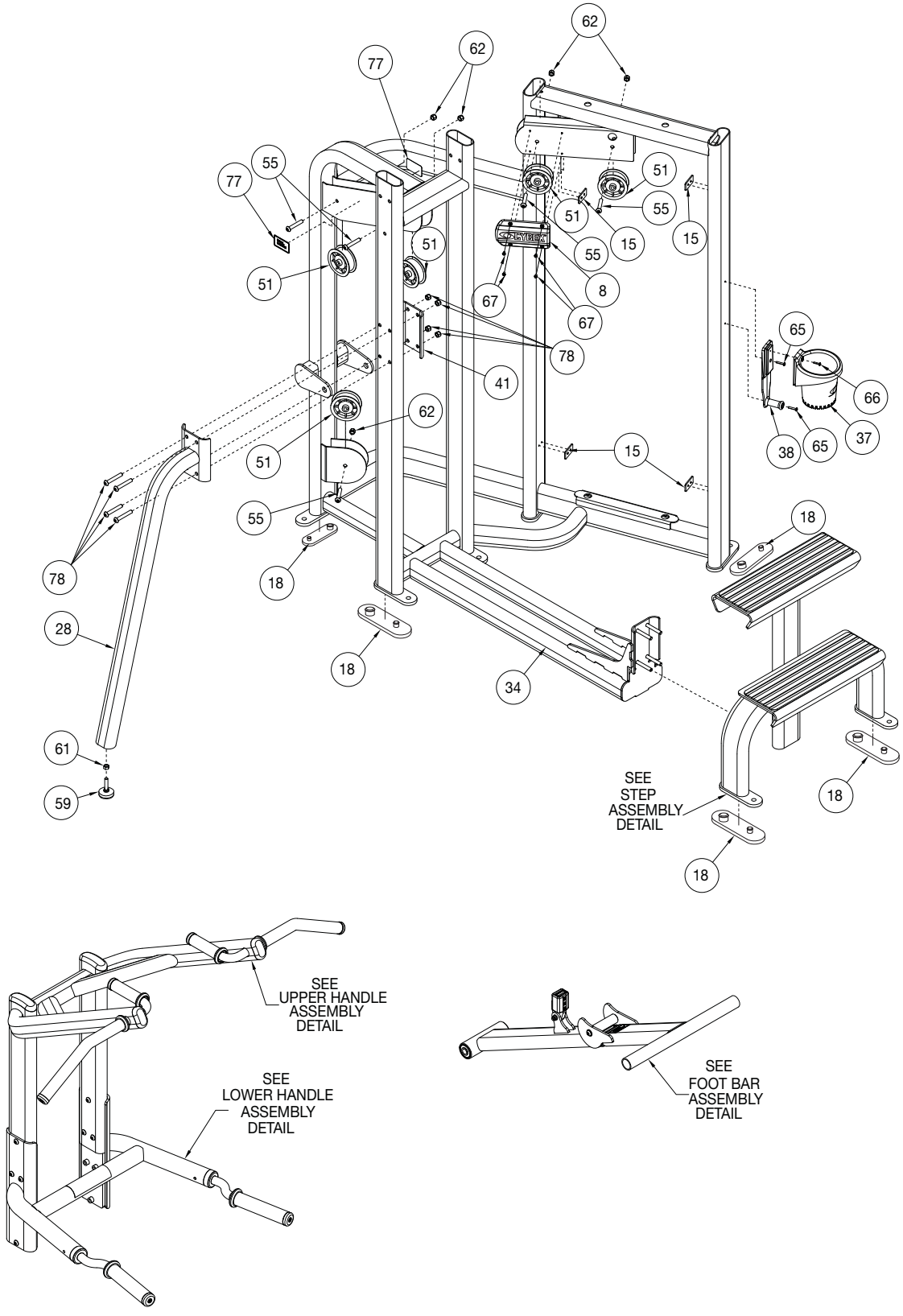
	DESCRIPTION	PART NO.
G.	Grip	4605-528
H.	Grip	12230-353
I.	Grip	11190-350
J.	Serial Number Decal	
K.	Weight Selector Pin	BH030207
L.	Non Slip	12230-337
M.	Increment Weight Decal	11000-407

ITEM	QTY	PART NO.	DESCRIPTION
1	1	11040-028	TOP WEIGHT ASSY
2	1	11040-568	CLAMP BLOCK INSERT
3	1	11090-210	CLAMP
4	4	11090-374	END CAP
5	4	11090-376	RING, HANDLE GRIP
6	2	11100-360	END CAP, BEARING HOUSING
7	2	11190-350	RUBBER GRIP
8	1	12000-466	PULLEY COVER
9	2	12000-369	RING, HANDLE GRIP
10	2	12000-387	EXTRUSION, INC WT CHANNEL
11	1	12000-392	CHANNEL, INCREMENT WEIGHT
12	1	12000-394	CHANNEL, INCREMENT WEIGHT
13	1	12000-395	TOP CAP
14	2	12000-396	END CAP
15	4	12000-398	SPACER
16	1	12000-418	PANEL INSERT
17	2	12060-350	WT ROD .625 X 54.63
18	7	12090-322	FOOT PAD
19	2	12102-330	INSERT, INCREMENT WEIGHT
20	1	12120-328	PIVOT SHAFT
21	2	12210-347	GUIDE ROD CAP
22	2	12210-348	GUIDE ROD CAP
23	1	12230-202	STEP FRAME
24	1	12230-203	DIP HANDLES
25	1	12230-204	INPUT BAR
26	2	12230-205	CONNECTION PLATE
27	2	12230-207	HANDLE
28	1	12230-208	SUPPORT LEG
29	1	12230-335	PIN, PIVOT
30	2	12230-337	NON-SLIP
31	1	12230-350	DECAL, WT PLATE (10 - 112)
32	2	12230-353	GRIP 1.62 OD X 1.20 ID
33	2	12230-355	GRAB GRIP 4.38
34	1	12231-200	MAIN FRAME
35	1	12231-201	CHIN HANDLES
36	1	12231-206	FOOT BAR
37	1	13000-400	HOLDER, WATER BOTTLE
38	1	13000-402	MOUNT, WATER BOTTLEHOLDER
39	2	4605-528	GRIP 1.38 OD X .96 ID
40	1	51198	WARRANTY BOOK (NOT SHOWN)
41	2	610A-329	BRACKET, LOWER, DISPLAYMOUNT
42	2	610A-350	END CAP
43	2	BS070208	COMPRESSION SPRING
44	1	CM000211	DECAL, PATENT PENDING
45	2	FB030232	BEARING, RADIAL 17 mm EXT RACE
46	4	FB050211	BRG FLG .38 X .50 .25 LG
47	2	FB130205	BRG,FLG .62 x .75 .38 LG
48	4	FB130214	BRG SLV 1.00 X 1.12 X .75
49	2	FC030006	TOLERANCE RING 1.575 ID
50	177"	GB000202	BELT .95 WIDE
51	5	GP000209	PULLEY ASSEMBLY-3.50
52	4	HC700412	BHSCS .375-16 X .50 (BLACK)
53	8	HC700414	BHSCS .375-16 X .625
54	6	HC700416	BHSCS .375-16 X .875
55	5	HC700428	BHSCS .375-16 X 2.25
56	4	HC700430	BHSCS .375-16 X 2.50
57	2	HF449064	INSERT 1.12 X .250-20 UNC
58	12	HF579000	PANEL FASTNER, 10-24 U TYPE
59	1	HG700022	LEVELING GLIDE, .375-16
60	1	HN664900	NUT, HEX SELF-LOCKING .312-18 ZINC
61	1	HN704000	HEX NUT .375-16
62	9	HN704901	LOCKNUT, .375-16 NYLON
63	2	HP306720	PIN COILED .25 x 1.25
64	4	HS347600	WASHER, SAE .375
65	10	HT512517	TAP SC 10-24 X 1.00 TYPE WB PN HD
66	1	HT552515	TAP SC NO. 8-16 X .75 PLASTITE PN HD
67	4	HT570410	SCREW, PNH TORX 10-24 X .375, BLACK
68	12	HX570412	BHSCS, 10-24 X .50, SS
69	3	HY740000	SET SCREW
70	6	JC620422	BHSCS .250-20 x 1.50
71	1	JD343320	BOLT .375 X 1.25 .312-18
72	2	PP080229	INSERT, PLASTIC, BALL 1.50Ø X 11 GA
73	2	PP130002	INSERT, DOMED PLASTIC
74	2	PP130003	INSERT, DOMED PLASTIC
75	2	PR060003	BUMPER, RECESS
76	2	PR060005	BUMPER, WEIGHT
77	4	4000Y316	DECAL, WARNING
78	2	12230-005	KIT, HARDWARE
79	1	11000-407-X*	INSERT, DOMED PLASTIC
80	1	4605-381-X*	INSERT, DOMED PLASTIC
81	1	12231-598-X*	PLACARD, DIP CHIN
82	1	12230-352-X*	DECAL
83	8	HF449063	INSERT .75 X .250-20 UNC
84	1	11040-790	DECAL, MADE IN U.S.A.

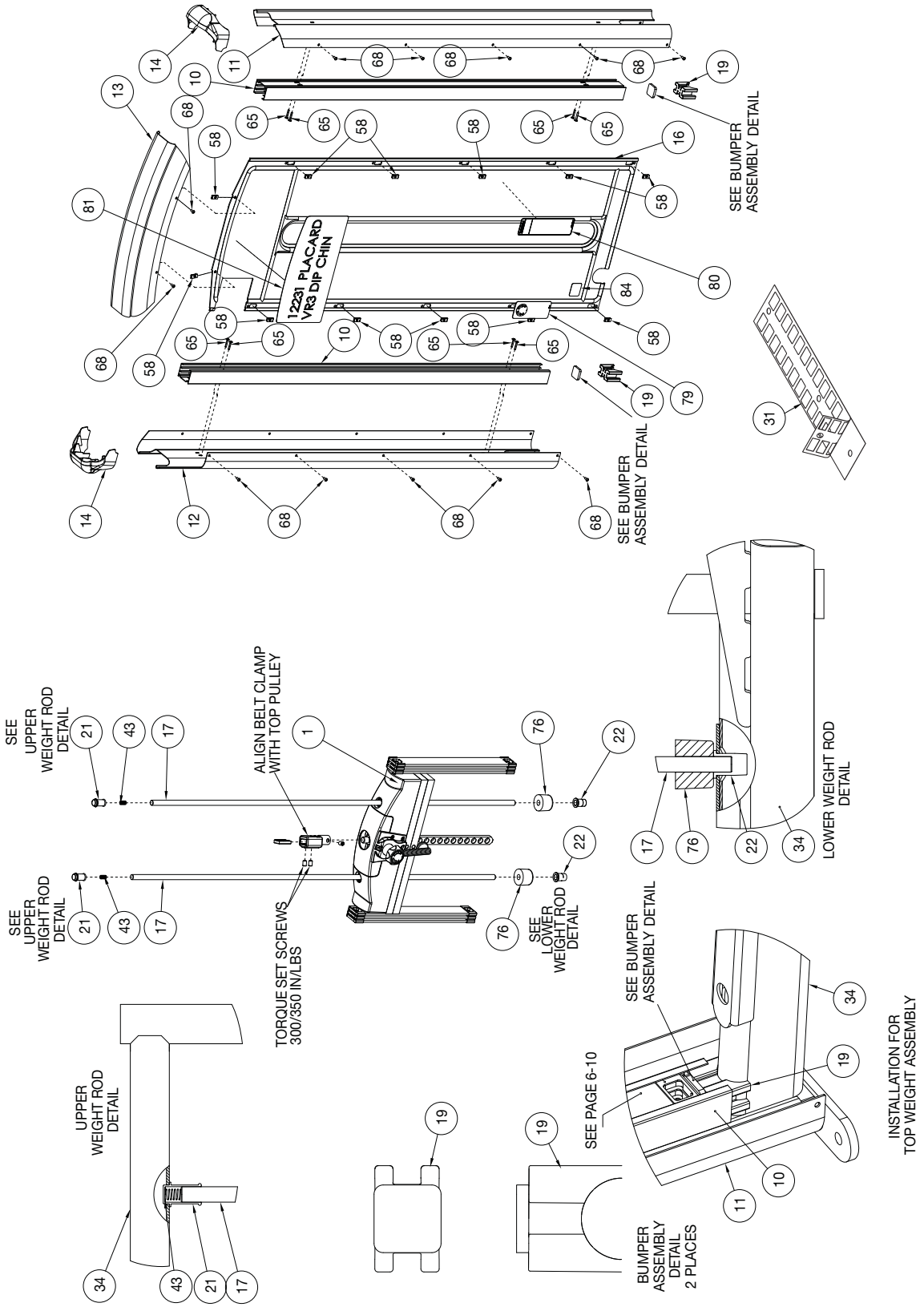
***Language Key**

1-German
2-French
3-Spanish
4-English
6-Japanese
7-Swedish
8-Russian

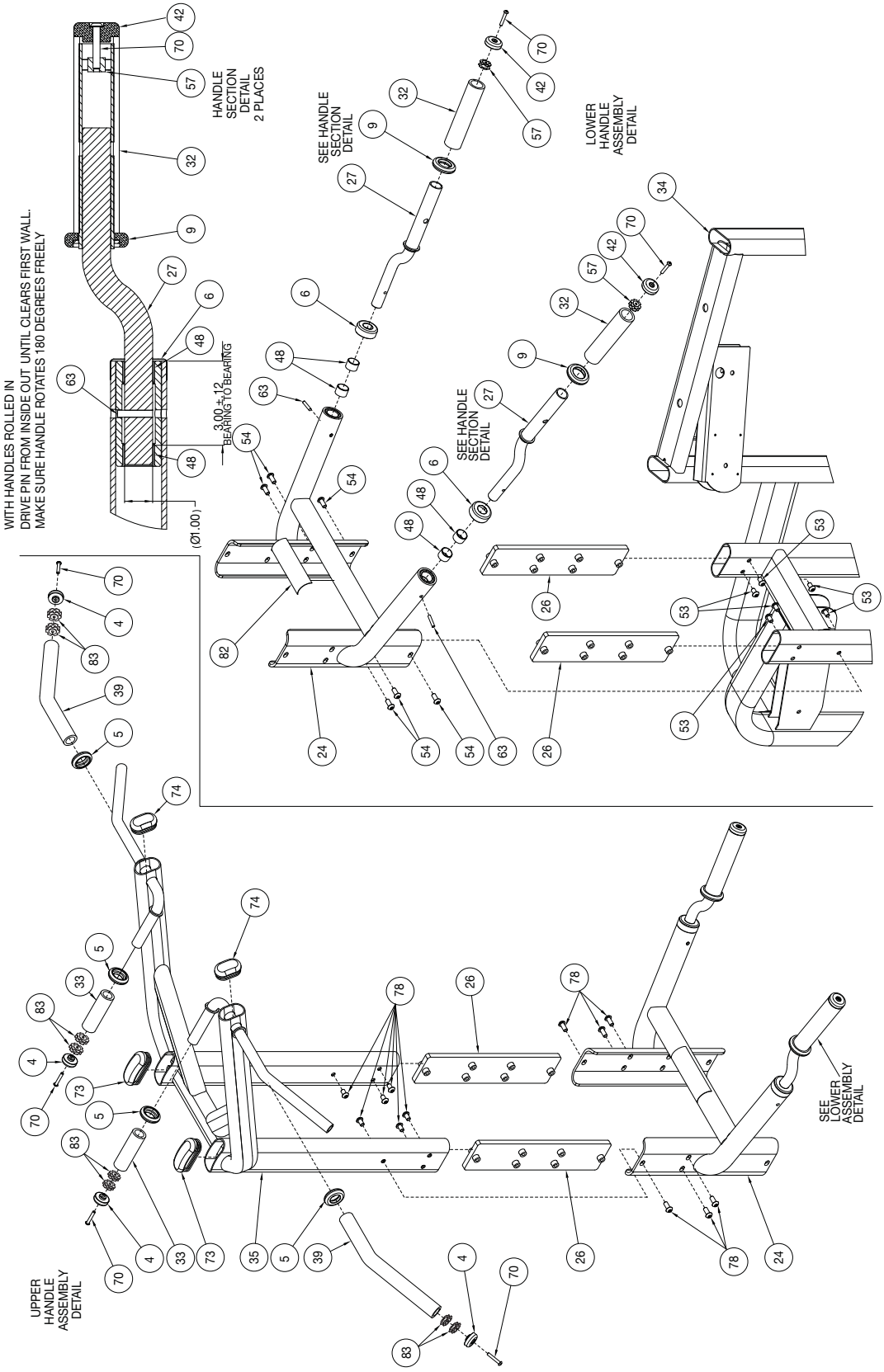
DIP/CHIN ASSIST MAIN ASSEMBLY DETAIL



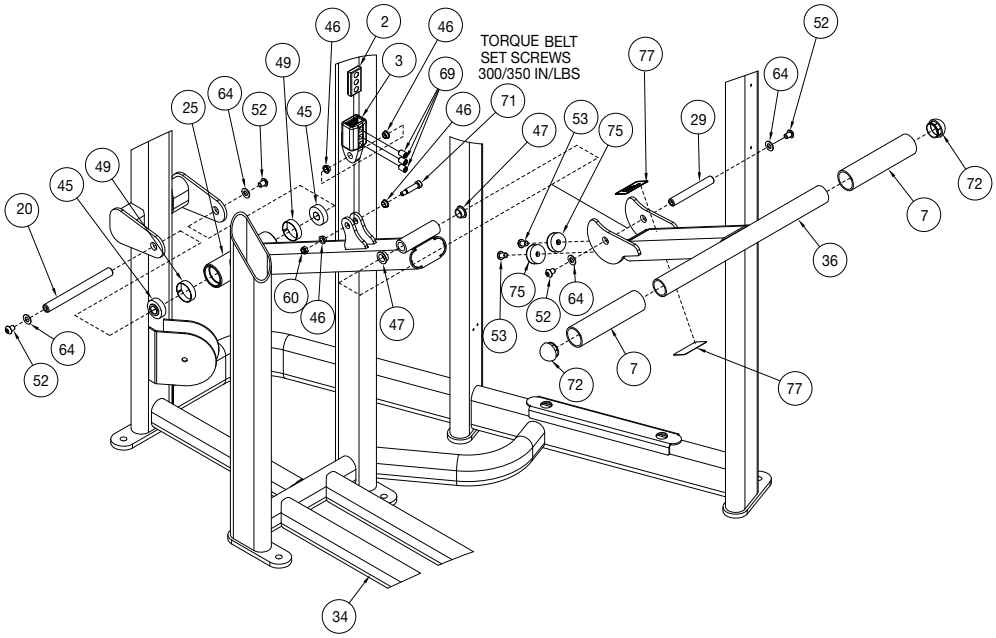
DIP/CHIN ASSIST SHROUD ASSEMBLY DETAIL


12231 PLACARD VR3 DIP CHIN
SEE BUMPER ASSEMBLY DETAIL
SEE BUMPER ASSEMBLY DETAIL
SEE UPPER WEIGHT ROD DETAIL
ALIGN BELT CLAMP WITH TOP PULLEY
SEE UPPER WEIGHT ROD DETAIL
TORQUE SET SCREWS 300/350 IN/LBS
SEE LOWER WEIGHT ROD DETAIL
LOWER WEIGHT ROD DETAIL
SEE BUMPER ASSEMBLY DETAIL
SEE PAGE 6-10
INSTALLATION FOR TOP WEIGHT ASSEMBLY
UPPER WEIGHT ROD DETAIL
BUMPER ASSEMBLY DETAIL 2 PLACES

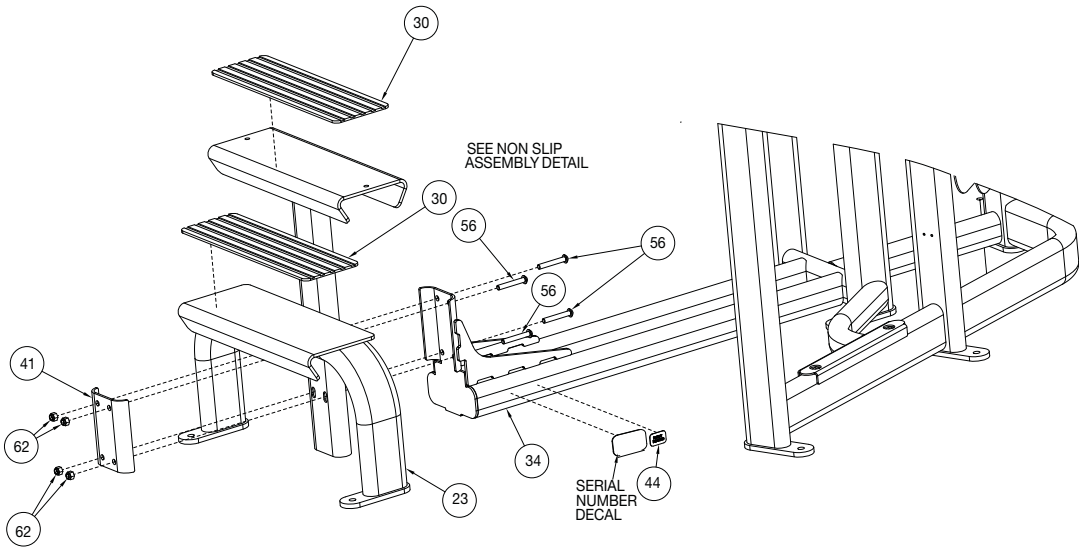
UPPER AND LOWER HANDLE ASSEMBLY DETAIL

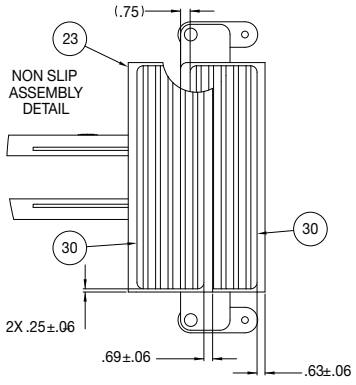

WITH HANDLES ROLLED IN
DRIVE PIN FROM INSIDE OUT UNTIL CLEARS FIRST WALL.
MAKE SURE HANDLE ROTATES 180 DEGREES FREELY
HANDLE SECTION DETAIL 2 PLACES
3.00 ± .12 BEARING TO BEARING
(Ø1.00)
SEE HANDLE SECTION DETAIL
SEE HANDLE SECTION DETAIL
LOWER HANDLE ASSEMBLY DETAIL
UPPER HANDLE ASSEMBLY DETAIL
SEE LOWER ASSEMBLY DETAIL

FOOT BAR ASSEMBLY DETAIL



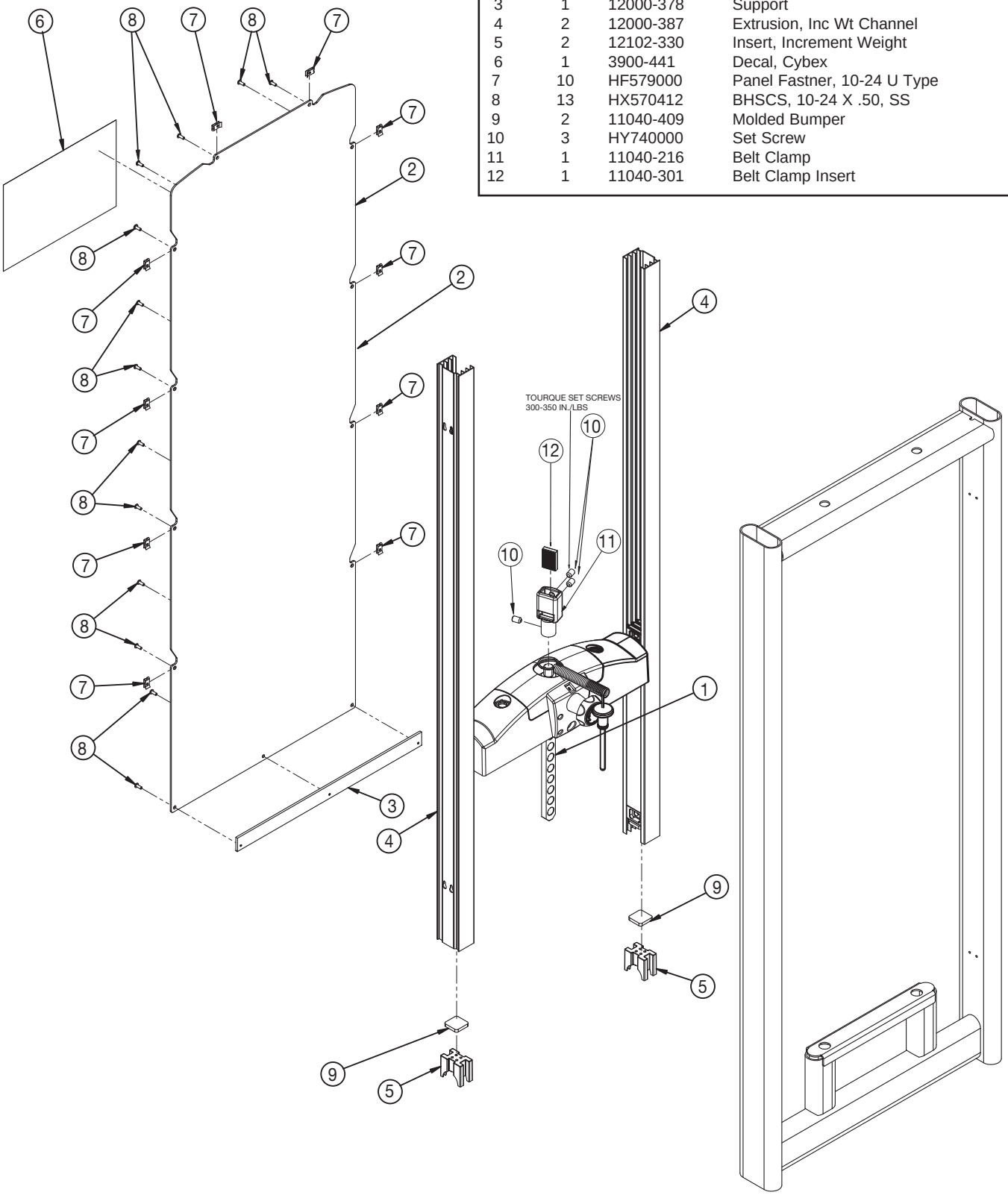
STEP ASSEMBLY DETAIL





Heavy Stack Assembly Configuration
12070-021

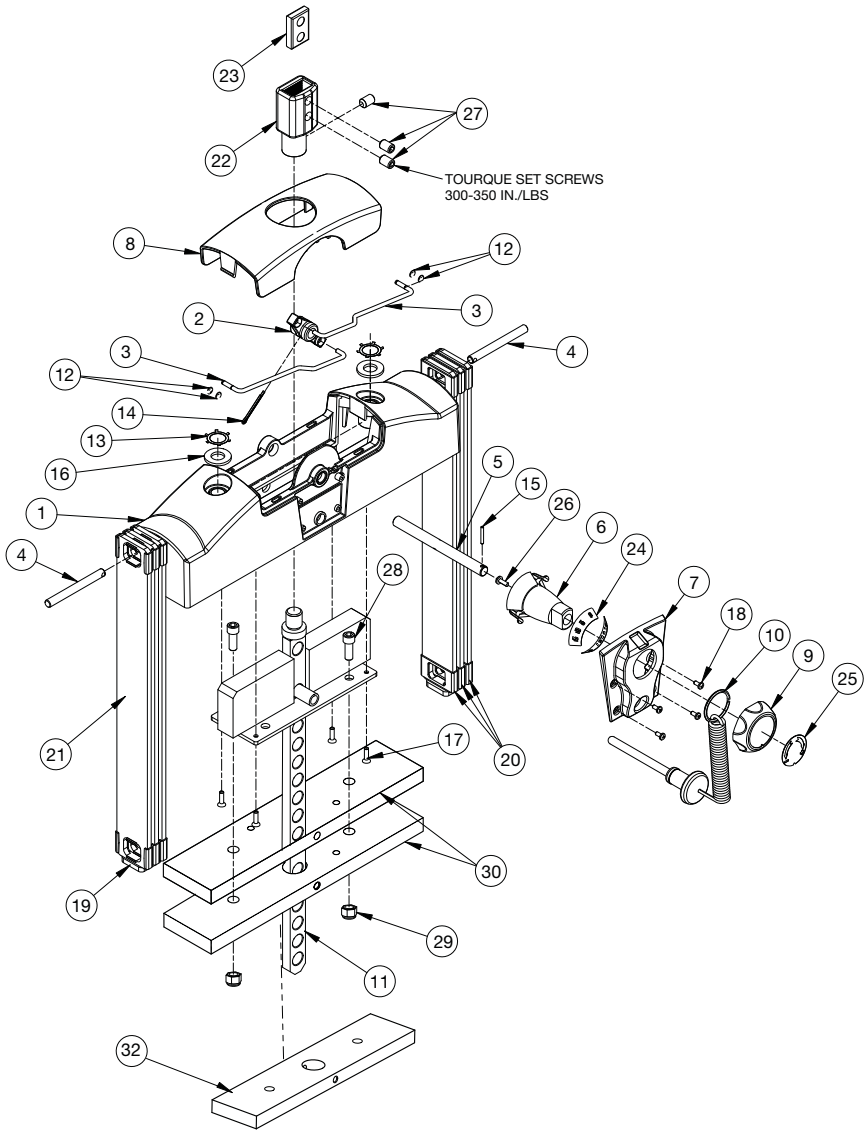
ITEM	QTY	PART NO.	DESCRIPTION
1	1	11040-007	Top Weight Assembly 15
2	1	12000-375	Panel, Insert
3	1	12000-378	Support
4	2	12000-387	Extrusion, Inc Wt Channel
5	2	12102-330	Insert, Increment Weight
6	1	3900-441	Decal, Cybex
7	10	HF579000	Panel Fastner, 10-24 U Type
8	13	HX570412	BHSCS, 10-24 X .50, SS
9	2	11040-409	Molded Bumper
10	3	HY740000	Set Screw
11	1	11040-216	Belt Clamp
12	1	11040-301	Belt Clamp Insert



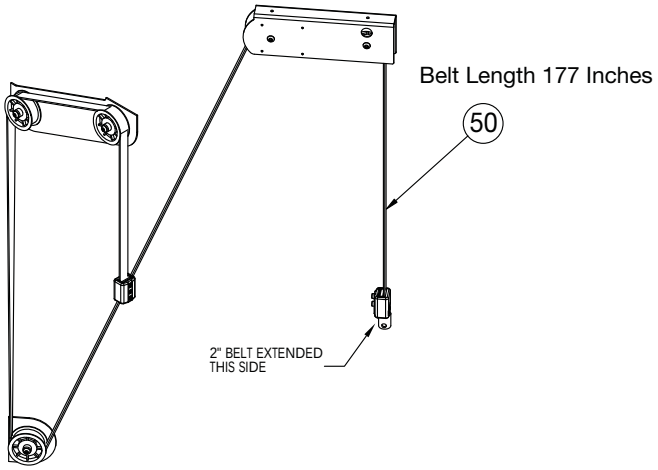
Top Weight Assembly

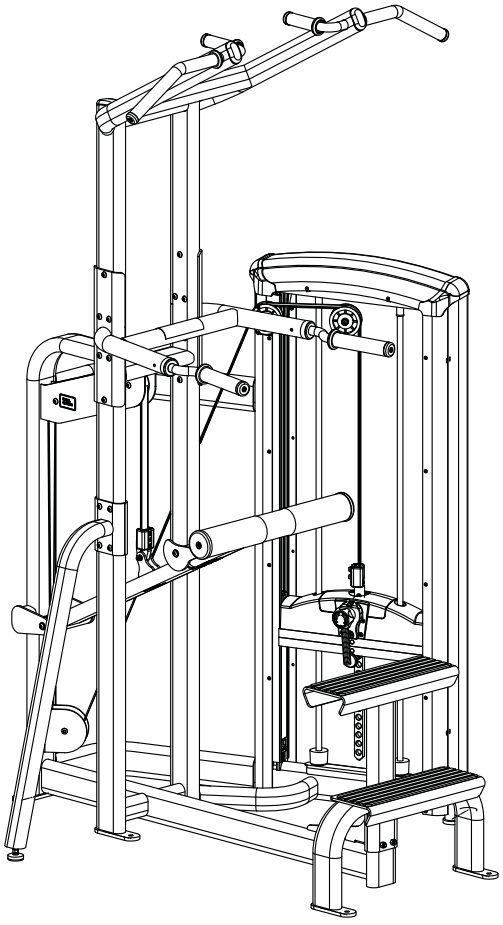
ITEM	QTY	PART NO.	DESCRIPTION
1	1	11040-366	Top Weight Assembly, Molded
2	1	11040-367	Hub, Molded
3	2	11040-369	Rod, Linkage
4	2	11040-370	Pin
5	1	11040-427	Rod
6	1	11040-426	Stem
7	1	11040-424	Cover Plate
8	1	11040-416	Cover, Top Weight
9	1	11040-425	Knob
10	1	BH030207	Pin, Weight Selector
11	1	4700-251	Lifting Post 15
12	4	BR030209	External Retaining Ring .188
13	2	BR030220	Internal Retaining Ring 1.250
14	1	HP016820	Cotter Pin .125 X 1.25
15	1	HP266765	Roll Pin, .125 X .938
16	2	HS720004	Felt Washer, .641 1.250 .125 T

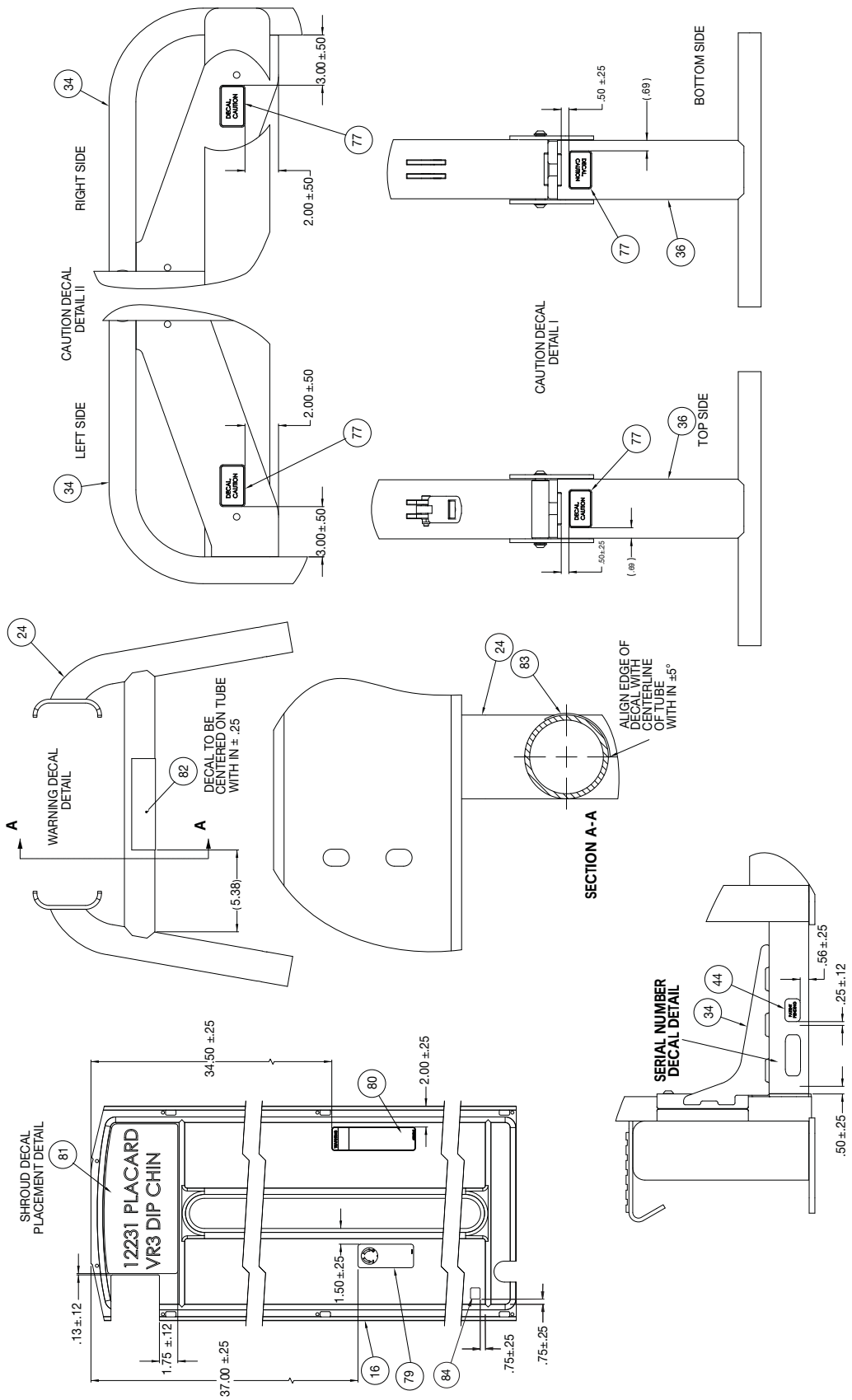
ITEM	QTY	PART NO.	DESCRIPTION
17	4	HT562715	Tap SC NO 10 x .750 F Phil
18	4	HT582510	Tap SC NO 10 x .375 PN HD
19	2	11040-409	Molded Bumper Pad
20	12	11040-572	Guard, Increment Weight
21	6	11040-573	Weight Increment
22	1	11040-216	Belt Clamp
23	1	11040-301	Clamp Block Insert
24	1	11040-428	Adjustment Decal
25	1	11040-429	Rotation Decal
26	1	HT552512	Screw, Pan HD Phil HD Self Tapping 8-16 x .50, Type WB
27	3	HY740000	Set Screw
28	2	HC702826	SHCS .375-16 X 2.00
29	2	HN704902	Lock Nut .375-16
30	2	11030-348	4 x 18 Weight 25LB
31	12	4000C101	Weight Plate
32	1	12230-035	Weight Pack (Not Shown)



DIP/CHIN ASSIST BELT ROUTING DETAIL






RIGHT SIDE
LEFT SIDE
CAUTION DECAL DETAIL II
CAUTION DECAL DETAIL I
BOTTOM SIDE
TOP SIDE
3.00 ±.50
2.00 ±.50
.50 ±.25
(.69)
WARNING DECAL DETAIL
DECAL TO BE CENTERED ON TUBE WITH IN ± .25
(5.38)
SECTION A-A
ALIGN EDGE OF DECAL WITH CENTERLINE OF TUBE WITH IN ±5°
SERIAL NUMBER DECAL DETAIL
.56 ±.25
.25 ±.12
.50 ±.25
SHROUD DECAL PLACEMENT DETAIL
12231 PLACARD
VR3 DIP CHIN
34.50 ±.25
2.00 ±.25
1.50 ±.25
.13 ±.12
1.75 ±.12
37.00 ±.25
.75±.25
.75±.25

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